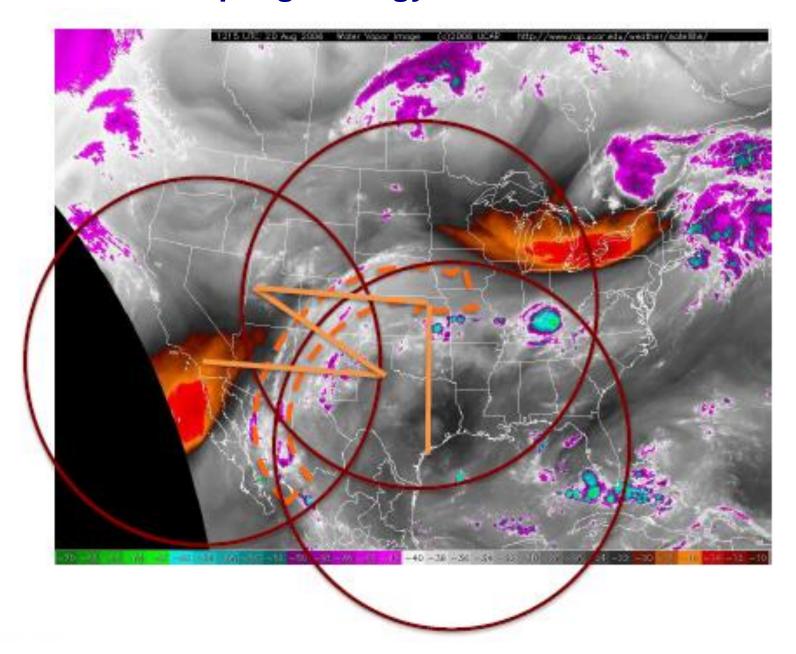
Types of the Flights



UTLS water vapor and deep convection

- Large scale surveys; complementary studies of convective events
- UTLS gradient survey flight: from Houston vertical profiling and horizontal mapping at LS 150-<80 hPa levels
 - Gradient survey flight: stair-steps as compromise between horizontal legs and vertical ramp profiling
 - August flights most useful for NAM
- Deep convection detrainment flight: Both ER2 and DC8
 - Need modeling tools (trajectory models?) to identify downwind regions
 - Evaluate near-field and downwind stratospheric impacts

NAM sampling strategy – Palmdale/Houston



Types of the Flights



- NAM flow and associated convection
 - Horizontal and vertical gradients associated with the NAM flow: both DC8 and ER2
 - Targeting deep convective systems
 - Difficulty to forecast late afternoon convective events
- Convective transport/STE by MCS, etc.
 - Sample impacts of different "flavors" of convection on UT/LS water vapor/trace gases/etc.